

CLAIMS

What is claimed is:

1. In a system having a received pseudorandom number (PN) clock signal, a method for providing a synchronized system clock signal having reduced jitter, said synchronized system clock signal being synchronized with said PN clock signal, the method comprising the steps of:

providing a stable high frequency reference signal;

dividing said high frequency reference signal to provide a system clock signal having a plurality of system clock phases; and

adjustably selecting a system clock phase of said plurality of system clock phases in accordance with the PN signal in order to provide said synchronized system clock signal.

2. The method of claim 1 further comprising the step of recovering said PN clock signal by providing PN phase adjustments of said PN clock signal.

3. The method of claim 2 further comprising the step of providing a tracking control signal in accordance with said PN phase adjustments.

4. The method of claim 3 further comprising the step of adjustably selecting said system clock phase in accordance with said tracking control signal.

5. The method of claim 1 further comprising the step of multiplying said high frequency reference signal prior to dividing said high frequency reference signal.

6. The method of claim 1 wherein said high frequency reference signal is provided using a temperature compensated crystal oscillator.

7. A communication system for providing a synchronized system clock signal having reduced jitter, said system having a received pseudorandom number (PN) clock signal, said synchronized system clock signal being synchronized with said PN clock signal, the system comprising:

means for providing a stable high frequency reference signal;

means for dividing said high frequency reference signal to provide a system clock signal having a plurality of system clock phases; and

means for adjustably selecting a system clock phase of said plurality of system clock phases in accordance with the PN signal in order to provide said synchronized system clock signal.